AirSim User Manual

Version 4.1

tru corp

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Introduction

Designed and produced by TruCorp, the AirSim range brings highly realistic and fully functional airway training systems to the market.

The main and most important component of the AirSim range is the unique AirSim airway. This is a faithful reproduction of the human airway anatomy and as such is invaluable as a training aid to facilitate the learning and development of airway management skills for all health professionals.

The innovated development and manufacture approach used makes the AirSim airway unique. The main features of the AirSim Airway which makes it unique include;

- The airway is moulded from a master which was created from data collected from a CT scan of a person.
- The one piece mould together with the sophisticated dipping procedure during manufacture makes possible much of the realism offered.
- Integrated one piece and seamless construction for real life functionality.

Introducing the AirSim product range

AirSim Standard

The AirSim Standard is uniquely constructed to allow realistic feedback during airway management procedures and provides true, anatomically correct and visually accurate internal features.

The neck construction allows the head to be moved and secured in a number of positions. This ranges from the standard “sniffing” position to more difficult scenarios.

The AirSim Standard also features an inflatable tongue with real-life size and texture. There is also an option to include “breakout” teeth to simulate the effects of bad practice in laryngoscopy.

Contents

Included in the black carry case are the following items

1 x AirSim Standard airway management manikin
1 x Blue Lung Bag
1 x Foam Block (for securing the head in a neutral position during storage)
1 x User manual CD

AirSim Multi

The AirSim Multi contains the key features of the AirSim Standard with the addition of a nasal passage and a chin.

The AirSim Multi facilitates training on nasal procedures as well as bag and mask ventilation techniques.

The nasal passage has been developed in a manner similar to the main airway. This gives the same anatomical realism and functionality; important landmarks such as the turbinates are clearly defined. In addition the material used offers the same tactile feedback which is delivered with the main airway itself.

Contents

Included in the black carry case are the following items

1 x AirSim Multi airway management manikin
1 x Blue Lung Bag
1 x Foam Block (for securing the head in a neutral position during storage)
1 x User manual CD

AirSim Bronchi

The AirSim Bronchi is the latest product addition to the AirSim family, providing anatomically correct detail down to the fourth generation bronchi.

The AirSim Bronchi provides exceptional detail in both internal and external features; made possible through a combination of cutting edge moulding technology and carefully handcrafted processes.

Contents

Included in the black carry case are the following items

1 x AirSim Bronchi airway management manikin
2 x Lung bags
1 x Foam Block (for securing the head in a neutral position during storage)
1 x User manual CD

AirSim Advance

The AirSim Advance is the most recent addition to the AirSim family. The advance model still maintains the features of the AirSim Multi unit, however for added realism a head and neck skin has been added. It is lightweight and portability, and maintains the unique features such as the AirSim airway and nasal passage.

Contents

Included in the black carry case are the following items

1 x AirSim Advance Airway Management Manikin
1 x Blue Lung Bag
1 x User manual CD

AirSim Advance Bronchi

The AirSim Advance Bronchi is the next generation to the AirSim family, providing anatomically correct detail down to the fourth generation bronchi together with the addition of our ‘real feel’ skin covering. This model combines together the skin covering of the AirSim Advance with all the combined features of the AirSim Bronchi to provide a true, anatomically correct and visually accurate Bronchi trainer. The AirSim Advance Bronchi features an improved neck design allowing for accurate articulation and provides exceptional detail in both internal and external features

Contents

Included in the black carry case are the following items

1 x AirSim Advance Bronchi Airway Management Manikin
2 x Blue lung bags
1 x User Manual CD

Please note: bag mask ventilation cannot be achieved on this model due to the closed cell Bronchi features. Additional lung bags can be attached onto the bronchioles to highlight successful bag mask ventilation but please ask your distributor representative or Trucorp for this feature if applicable as this is not a product feature that comes as standard with the Bronchi range of models.

AirSim Advance Crico

The AirSim Advance Crico is the newest addition to the AirSim family. The Advance Crico model still maintains the features of the AirSim Advance unit, however for added realism during needle/surgical Cricothyroidotomy the neck area has been manipulated to contain the anatomical features which are highlighted during a Cricothyroidotomy procedure. It is anatomically correct with a replaceable neck skin and larynx. It is lightweight and portable, and maintains the unique features such as the AirSim airway and nasal passage together with the additional palpable thyroid cartilage, cricothryoid membrane and cricoid cartilage.

Contents

Included in the black carry case are the following items

1 x AirSim Advance Crico Airway Management Manikin
1 x Blue Lung Bag
1 x User manual CD
1 x Roll of airway sealing tape
1 x Strip of replaceable neck skin onto model as supplied

AirSim Advance Traci

The AirSim Advance Traci is an innovative addition to the AirSim family. The Advance Traci model has the added benefit of a new design that allows for greater realism. It has anatomically correct laryngeal cartilages and palpable tracheal rings to provide positive user feedback. The Larynx has been manipulated to contain the anatomical features which are highlighted during a Percutaneous tracheostomy procedure. It is anatomically correct with a replaceable neck skin which can last up to 25 times and a representative larynx. It is lightweight and portable, and maintains the unique features such as the AirSim airway and nasal passage together with the additional palpable thyroid cartilage and cricoid cartilage.

Contents

Included in the black carry case are the following items

1 x AirSim Advance Traci Airway Management Manikin
1 x Blue Lung Bag
1 x User manual CD
1 x Roll of airway sealing tape
1 x Strip of replaceable neck skin attached onto model as supplied

AirSim Advance Larynx

The AirSim Advance Larynx has been designed to offer realism in the training of microlaryngeal surgical and laser techniques. Evolving from Trucorp's AirSim Advance Crico it has been uniquely designed to give optimal realism while training in a theatre environment. The AirSim Advance Larynx comes with disposable silicone vocal cord inserts for training in surgical techniques for removing cancerous pathologies on the vocal cords. It also comes with Trucorp's new specially developed "TLT" material vocal cords which highlight a range of cancers and polyps for the use of training in CO2 laser removal techniques.

These features combined with the "real-feel" skin covering make the AirSim Advance Larynx the most comprehensive and cost effective training tool available for training and aspiring ENT surgeons.

Each model will come with 3 silicone vocal cord inserts as standard for surgical needs and 3 overlay neck skins. The AirSim Advance larynx is presented on a light and sturdy base frame and is neatly packaged with it's own black carrier case for ease of transportation. There is also an option for an extra shelf piece which can be retrofitted to the model to hold the laser apparatus.

Contents

Included in the black carry case are the following items

1 x AirSim Advance Larynx Airway Management Manikin
1 x Blue Lung Bag
1 x Laser mounting shelf
1 x User manual CD
1 x Larynx cover
3 x neck skins
3 x Silicone vocal cord inserts

AirSim Baby

The AirSim Baby is the latest addition to the AirSim Family. Uniquely constructed to allow realistic feedback during airway management procedures and provides true, anatomically correct and visually accurate internal features.

AirSim Baby has a realistic anatomy that enables basic and advanced paediatric airway management. The AirSim Baby facilities training in the use of bag/mask ventilation, supraglottic airway insertion and both naso and orotracheal intubation. In addition is can be used with all current video laryngoscopes.

Presented in a lightweight but sturdy frame, AirSim Baby comes shipped with its own lungs to demonstrate correct tube placement and is neatly packaged with its own lightweight case for easy transportation.

Contents

Included in the black carry case are the following items;

1 x AirSim Baby airway management manikin
2 x Blue Lung Bags

AirSim Pierre Robin

The AirSim Pierre Robin is the next evolutionary addition to the TruCorp Paediatric range. It was developed to highlight difficult airway management techniques on infants with Pierre Robin Sequence. In line with Trucorp's current products this has been built with realistic anatomical features and our 'real feel' skin. The model allows for training in all aspects of infant airway management including bag mask ventilation, both naso and orotracheal intubation and difficult intubation techniques necessary for an infant with mandibular hypoplasia.

Features significant mandibular hypoplasia, glossoptosis, cleft palate and a bifid uvula. It is an anatomically correct model with very realistic features to allow for high fidelity training of difficult airway management.

True to Trucorp's well known branding the model is presented on a lightweight and sturdy frame.

The model comes shipped with its own lungs to demonstrate correct tube placement. It is neatly packaged in its own lightweight case for easy transportation.

Recommended sizes of tracheal tubes are 3.5-4.0 and recommended supraglottic airway is size 1

Contents

Included in the black carry case are the following items;

1 x AirSim Pierre Robin airway management manikin
2 x Blue Lung Bags

AirSim Child

AirSim Child is the latest addition to the AirSim Paediatric range of advanced airway models. This anatomically correct six-year-old child manikin has both realistic size and anatomical features perfect for practicing paediatric airway management skills, including bag/mask ventilation, supraglottic airway insertion, naso and orotracheal intubation.

The AirSim Child model allows for training in all aspects of infant airway management, including insertion of Laryngeal masks and endotracheal intubation both nasal and oral.

Realistic and true internal anatomical features allow for an efficient and successful demonstration of all paediatric videolaryngoscopes.

True to Trucorp's products this model is presented in an aesthetically pleasing lightweight frame with lung bags included to illustrate correct tube placement. This model also comes with a lightweight carrier case as standard for ease of transport.

Contents

Included in the black carry case are the following items;

1 x AirSim Child airway management manikin
2 x Blue Lung Bags

PLEASE NOTE THAT MOUTH TO MOUTH RESUSCITATION TRAINING IS NOT RECOMMENDED ON THESE MODELS AS THE AIRWAY AND LUNGS ARE NOT DISPOSABLE OR REPLACEABLE.

Quick set up guide for AirSim Standard, Multi and Bronchi

1. Remove the AirSim unit from the black carrier case, with the lung bag.

2. Connect the lung bag to the open section of the left Bronchi on AirSim airway

3. On the Bronchi model attach the small lung bags onto the ends of the pre-cut bronchioles.

4. Ensure that the tongue is inflated with approx 20ml of air. This will create normal lingual tension. Increasing the amount of air will create a more difficult airway management scenario.

5. The neck can be adjusted and locked using the 'Wing nut' tensioner. Using this neck lock system, the head can be accurately placed in the 'sniffing the morning air' position. This is achieved when the head is moved so that the red marks on the fixed neck joint are in alignment. For more difficult airway management scenarios the head can be fixed in a more forward position.

6. Using Trucorp's silicone lubricant ensure that the internal airway is well lubricated including the tongue, hard palate, back of the mouth and epiglottis. If appropriate ensure that the nasal passage is lubricated.

7. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway.

8. Please ensure that the AirSim airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

9. Please replace the AirSim unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents.

Quick set up guide for AirSim Advance and AirSim Advance Bronchi

1. Remove the AirSim unit from the black carrier case, with the lung bag.

2. Connect the lung bag to the open section of the left Bronchi on AirSim airway

3. On the Advance Bronchi model attach the small lung bags onto the ends of the pre-cut bronchioles.

4. Ensure that the tongue is inflated with approx 20ml of air. This will create normal lingual tension. Increasing the amount of air will create a more difficult airway management scenario.

5. Using Trucorp's silicone lubricant ensure that the internal airway and Nasal passage are well lubricated.

6. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway.

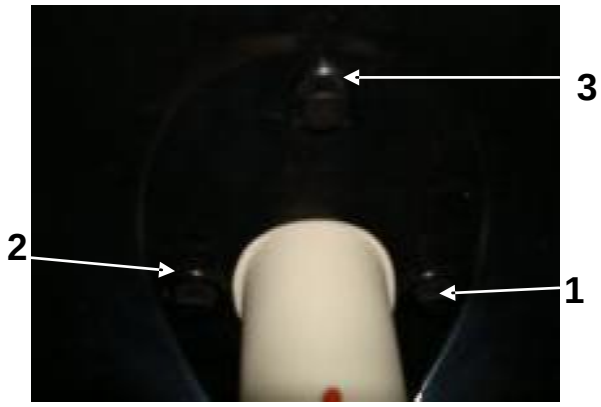
7. Please ensure that the AirSim airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

8. The head and neck skin of the models are made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material

9. Please replace the models unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents.

Removing the AirSim Advance and AirSim Advance Bronchi head from base

The head can be detached from the base by removing the 3 bolts from the underside of the base as shown below.



The head can be reattached to the base by attaching screws in positions 1 & 2 before attaching 3.

Quick set up guide for AirSim Advance Crico and AirSim Advance Crico Bronchi

1. Remove the AirSim unit from the black carrier case, with the lung bag.

2. Connect the lung bag to the open section of the left Bronchi on AirSim airway

3. On the Bronchi model attach the small lung bags onto the ends of the pre-cut bronchioles.

4. Ensure that the tongue is inflated with approx 20ml of air. This will create normal lingual tension. Increasing the amount of air will create a more difficult airway management scenario.

5. Each model shipped will be able to begin Cricothyroidotomy procedure immediately but please ensure that the airway has sealing tape covering the Cric hole, the larynx is in its secured resting position and that the skin is attached to all the velcro points to enable a fully functioning product.

6. After a nominal amount of procedures ensure that the airway sealing tape is replaced as this will affect the airtight quality of the product.

7. The larynx can be removed easily and another piece of sealing tape cut to approx 5-6cm and attached over the Cric hole in the airway. Please ensure that the airway is clean and dry before attaching the tape to ensure secure tape adhesion.

8. To ensure the larynx is in it's secure resting position line up the gap on the larynx that resembles the cricothryoid membrane to the white sealing tape.

9. Each replaceable neck skin can be easily removed and a new piece attached and we hope that it will last up to 25 times before needing replaced. To ensure a completed fully functional neck skin, all velcro locations must be attached to the skin.

10. Using Trucorp's silicone lubricant ensure that the internal airway and the nasal passage is well lubricated.

11. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway and Cricothryoid membrane.

12. Please ensure that the AirSim airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

13. The head and neck skin of the AirSim Advance is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material

14. Please replace the AirSim Advance Crico unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents

Trucorp provide the following spare parts for the AirSim Advance Crico. These can be ordered while purchasing using the following codes;

LA1000 - 1 x Larynx –– Anatomical Larynx containing the Thyroid Cartilage, Cricothryoid membrane and Cricothryoid cartilage.

RS1005 – **Replacement neck skin attachments** - (older model)- (pack of 5)

RSN1005 - New wrap around replaceable neck skins – (pack of 5)

ST1000 - 1 x Sealing tape - Sealing tape used to replicate the Cricothryoid membrane. This interchangeable part is used to cover the cricothryoid hole in the airway and is replaced after every surgical procedure.

SFT1005 – Subcutaneous fat tissue (pack of 5)

Quick set up guide for AirSim Advance Traci and AirSim Advance Traci Bronchi

1. Remove the AirSim unit from the black carrier case, with the lung bag.

2. Connect the lung bag to the open section of the left Bronchi on AirSim airway

3. On the Bronchi model attach the small lung bags onto the ends of the pre-cut bronchioles.

4. Ensure that the tongue is inflated with approx 20ml of air. This will create normal lingual tension. Increasing the amount of air will create a more difficult airway management scenario.

5. Each model shipped will be able to begin the tracheostomy procedure immediately but please ensure that the airway has sealing tape covering the Traci hole located between the 2nd and 3rd Tracheal ring, the larynx is in its secured resting position and that the skin is attached to all the velcro points to enable a fully functioning product.

6. After a nominal amount of procedures ensure that the airway sealing tape is replaced as this will affect the airtight quality of the product.

7. The larynx can be removed easily and another piece of sealing tape cut to approx 5-6cm and attached over the Traci hole in the airway. Please ensure that the airway is clean and dry before attaching the tape to ensure secure tape adhesion.

8. To ensure the larynx is in it's secure and correct resting position line up the gap on the larynx that resembles the 2nd and 3rd tracheal ring and line up with white sealing tape.

9. Each replaceable neck skin can be easily removed and a new piece attached. To ensure a completed fully functional neck skin, all velcro locations must be attached to the skin.

10. Using Trucorp's silicone lubricant ensure that the internal airway and the nasal passage is well lubricated.

11. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway and the Tracheal rings.

12. Please ensure that the AirSim airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

13. The head and neck skin of the AirSim Advance Traci is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material

14. Please replace the AirSim Advance Traci unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents

Trucorp provide the following spare parts for the AirSim Advance Traci. These can be ordered while purchasing using the following codes;

TT1000 - 1 x Larynx –– Anatomical Larynx containing the Thyroid Cartilage and tracheal rings.

RSN1005 – **Wrap around neck skin attachments**- (pack of 5)

ST1000 - 1 x Sealing tape - Sealing tape used to replicate the Tracheal ring membrane. This interchangeable part is used to cover the space between the 2nd and 3rd tracheal ring hole in the airway and is replaced after every surgical procedure.

SFT1005 – Subcutaneous fat tissue (pack of 5)

Quick set up guide for AirSim Advance Larynx **and** AirSim Advance Larynx Bronchi

1. Remove the AirSim unit from the black carrier case, with the lung bag.

2. Connect the lung bag to the open section of the left Bronchi on AirSim airway

3. On the Bronchi model attach the small lung bags onto the ends of the pre-cut bronchioles.

4. Ensure that the tongue is inflated with approx 20ml of air. This will create normal lingual tension. Increasing the amount of air will create a more difficult airway management scenario.

5. Each model shipped will be able to begin usage immediately with the addition of the appropriate vocal cord insert but please ensure that the larynx is in its secured resting position, and that the skin is attached to all the Velcro points to enable a fully functioning product.

6. Ensure that the shelf accompanied with the model is secured and positioned correctly so that it is facing away from the head so that the laser securing apparatus can be mounted. Also please ensure the screw nut is secured and in place.

7. When choosing on the appropriate vocal cord insert please ensure that if a laser is being used for laser techniques that only to use the TLT material serial codes – LVC. This material has been tested to not give out toxic fumes upon Co^2 laser ablation and is safe to use. Using a CO^2 laser on the silicone surgical inserts will be potentially harmful and your warranty will be affected and you will not be viable for replacements.

   When choosing the vocal cord for surgical techniques please use the silicone vocal cord inserts with serial codes - SVC as these are specifically designed for surgical procedures only and NOT laser techniques.

8. When ordering the vocal cord inserts please ask for guidance upon your intended purpose and we can guide you on the best inserts for your application. We do advise that the inserts are only ordered as and when for demand purposes and not ordered to build up stock as the shelf life is short on the laser inserts.

9. When the TLT material for laser techniques is not being used or is not needed please ensure that is it kept in the air tight container. The material can dry out rapidly if not stored correctly or left open. We also advise not ordering/delivering the vocal cord inserts until a week or two

before you're intended purpose based on this fact. Your warranty will be affected if the TLT inserts have found to be stored incorrectly.

10. To insert the vocal cords peel back the neck skin, remove the larynx cover and in the space provided in the larynx place the appropriate vocal cords. Ensuring that the lower location point lines up with the location hole in the larynx. Re-attach the larynx cover and secure the neck skin into please at all the Velcro locations.

11. Full care is needed when using the laser on the model and that only the vocal cord area with the TLT material is used for ablation.

12. Using Trucorp's silicone lubricant ensure that the internal airway and Nasal passage is well lubricated if used for airway management. (If applicable)

13. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway.

14. Please ensure that the AirSim airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

15. The head and neck skin of the AirSim Advance Larynx is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material

16. Please replace the AirSim Advance Larynx unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and storing detergents

Trucorp provide the following vocal cord inserts and parts for the AirSim Advance Larynx. These can be ordered while purchasing using the following codes;

For laser procedures.

LVC-C1 -Cancer 1 – Single small cancer on vocal cords

LVC-P2- Polyp 2 - Two small polyps opposing on the vocal cords

LVC-C2 – Cancer 2 – One single large Tumour

For Surgical procedures

SVC-C1 - Cancer 1 – Single small cancer on vocal cords

SVC-P2 - Polyp 2 - Two small polyps opposing on the vocal cords

SVC-C2 - Cancer 2 – One single large Tumour

LAR200 - Larynx cover

RS1005 - Replacement neck skin attachments (pack of 5)

Disclaimer: The AirSim Advance Larynx has materials that with misuse or misdirection of a laser can cause very damaging effects to the model and destroy the outer silicone facial skin and the internal latex airway. Also there is a high risk chance of fire damage to the models when exposing the laser to the areas mentioned above, other than on the vocal cord inserts. The vocal cord inserts should be the only area that is in direct contact with the laser. Misuse or application of the laser at any other location on the model other than the designated TLT vocal cord insert will result in warranty being void. The laser should only be used for the TLT vocal cord inserts and not the silicone vocal cords inserts. Again this would make the warranty void.

Adequate ventilation is required when using the model in a theatre environment when ablating the TLT inserts with a CO^2 laser. The potential gases released have not been fully characterised and please ensure minimal exposure.

Quick Set up Guide for AirSim Baby and AirSim Pierre Robin

1. Remove the AirSim Baby and AirSim Pierre Robin from the black carrier case, with blue lung bag

2. Connect both ends of the lung bags to the open sections of the bronchi

3. Using Trucorp's silicone lubricant ensure that the internal airway and Nasal passages are well lubricated.

4. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway.

5. Please ensure that the AirSim Baby and Pierre Robin airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

6. The head and neck skin of the AirSim Baby and Pierre Robin is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material.

7. Please replace the AirSim Baby and Pierre Robin unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents

Quick set up guide For AirSim Child

1. Remove the AirSim Child from the black carrier case, with blue lung bag

2. Connect both ends of the lung bags to the open sections of the bronchi

3. Using Trucorp's silicone lubricant ensure that the internal airway and Nasal passage are well lubricated.

4. Ensure that all airway devices are prepared to the manufactures recommendations and instructions. Before insertion of the device generous amounts of lubricant should be used to cover the surfaces in contact with the AirSim airway.

5. Please ensure that the AirSim Child airway is cleaned after use. Please use warm water of a dilute (8-10% w/w) Sodium Bicarbonate solution until all visible foreign matter and residue is removed.

6. The head and neck skin of the AirSim Child is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material.

7. Please replace the AirSim Child unit back into the carrier case and store in clean, dry conditions away from heat and light; avoid contact with metals, solvents, oils or greases and strong detergents

Airway Management

The AirSim Standard

The AirSim Standard is ideal for training in the use of:

- Laryngeal Masks
- Full range of supraglottic devices
- Laryngoscopes
- Tracheal Tubes
- Fibreoptic Laryngoscopes
- Needle Cricothyroidotomy Systems

TruCorp recommend the following equipment sizes for optimal performance:

- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Multi

The AirSim Multi can be used in the training of all the procedures facilitated by the AirSim Standard with the addition of:

- Naso–tracheal intubation
- Awake fibreoptic examination
- Bag & mask ventilation techniques.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Bronchi

The AirSim Bronchi unit will provide a solution to your training needs in:

- Diagnostic bronchoscopy.
- Lung isolation techniques using left and right endobronchial tubes and bronchial blockers.
- Lung suctioning techniques.
- For clinicians and industrial clients, the AirSim Bronchi is a leading choice for demonstration of items such as:
- Fibreoptic bronchoscopic equipment.
- Single and double lumen tubes and bronchial blockers.

- Specialised bronchial stents.

The AirSim Bronchi can also be used in a similar manner to the AirSim Multi and can cover an extensive range of training requirements.

Trucorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 35F - 37F for endobronchial tubes.

The AirSim Advance

The AirSim Advance can be used in the training of all the procedures facilitated by the AirSim multi, which includes;

- Naso–tracheal intubation
- Awake fibreoptic examination
- Bag & mask ventilation techniques.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Advance Bronchi

The AirSim Advance Bronchi can be used in a similar manner to the AirSim Advance and can cover an extensive range of training requirements including;

- Naso–tracheal intubation
- Awake fibreoptic examination
- Bag & mask ventilation techniques.

The AirSim Advance Bronchi unit will provide a solution to your training needs in:

- Diagnostic bronchoscopy.
- Lung isolation techniques using left and right endobronchial tubes and bronchial blockers.
- Lung suctioning techniques.
- For clinicians and industrial clients, the AirSim Bronchi is a leading choice for demonstration of items such as:

- Fibreoptic bronchoscopic equipment.
- Single and double lumen tubes and bronchial blockers.
- Specialised bronchial stents.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 35F - 37F for endobronchial tubes.

The AirSim Advance Crico

In addition to Needle/Surgical Cricothryoidotomy the AirSim Advance Crico is also ideal for training in;

- Full range of supraglottic devices
- Laryngoscopes
- Tracheal Tubes
- Fibreoptic Laryngoscopes
- Naso–tracheal intubation
- Awake Fibreoptic examination
- Bag & mask ventilation techniques.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Advance Crico Bronchi

In addition to Needle/Surgical Cricothryoidotomy the AirSim Advance Crico Bronchi is also ideal for training in;

- Naso–tracheal intubation
- Awake fibreoptic examination
- Bag & mask ventilation techniques.

The AirSim Advance Bronchi unit will provide a solution to your training needs in:

- Diagnostic bronchoscopy.
- Lung isolation techniques using left and right endobronchial tubes and bronchial blockers.

- Lung suctioning techniques.
- For clinicians and industrial clients, the AirSim Bronchi is a leading choice for demonstration of items such as:
- Fibreoptic bronchoscopic equipment.
- Single and double lumen tubes and bronchial blockers.
- Specialised bronchial stents.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 35F - 37F for endobronchial tubes.

The AirSim Advance Traci

In addition to percutaneous Tracheostomy the AirSim Advance Traci is also ideal for training in;

- Full range of supraglottic devices
- Laryngoscopes
- Tracheal Tubes
- Fibreoptic Laryngoscopes
- Naso–tracheal intubation
- Awake Fibreoptic examination
- Bag & mask ventilation techniques.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Advance Traci Bronchi

In addition to percutaneous Tracheostomy the AirSim Advance Traci Bronchi is also ideal for training in;

- Full range of supraglottic devices
- Laryngoscopes
- Tracheal Tubes
- Fibreoptic Laryngoscopes
- Naso–tracheal intubation
- Awake Fibreoptic examination
- Bag & mask ventilation techniques.

The AirSim Advance Traci Bronchi unit will provide a solution to your training needs in:

- Diagnostic bronchoscopy.
- Lung isolation techniques using left and right endobronchial tubes and bronchial blockers.
- Lung suctioning techniques.
- For clinicians and industrial clients, the AirSim Bronchi is a leading choice for demonstration of items such as:
- Fibreoptic bronchoscopic equipment.
- Single and double lumen tubes and bronchial blockers.
- Specialised bronchial stents.

The AirSim Advance Larynx

The AirSim Advance Larynx can be used in the training of all laser techniques for removing cancerous pathologies on the vocal cords using a Co^2 laser. Applicable Co^2 laser companies are to be used for this application.

On top of this the model can still be used to facilitate procedures, which includes;

- Full range of supraglottic devices
- Laryngoscopes
- Tracheal Tubes
- Fibreoptic Laryngoscopes
- Needle/Surgical Cricothryoidotomy
- Naso–tracheal intubation
- Awake Fibreoptic examination
- Bag & mask ventilation techniques.

TruCorp recommend the following equipment sizes for optimal performance:

- 7.0-7.5 mm ID for nasal intubation
- 8.0-9.0 mm ID for oral intubation
- Size 3 and 4 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)

The AirSim Baby

The AirSim Baby can be used in the training of all the procedures facilitated by infant airway management, which includes;

- Naso–tracheal intubation
- Positive pressure ventilation.
- Bag & mask ventilation techniques.

- Endotracheal intubations.

TruCorp recommend the following equipment sizes for optimal performance:

- Size 3.5 - 4 tracheal tubes
- Size 1 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 1 for video laryngoscopes

The AirSim Pierre Robin

The AirSim Pierre Robin can be used in the training of all the procedures facilitated by a difficult infant with congenital defects for airway management, which includes;

- Naso–tracheal intubation
- Positive pressure ventilation.
- Bag & mask ventilation techniques.
- Endotracheal intubations.

TruCorp recommend the following equipment sizes for optimal performance:

- Size 3.5 - 4 tracheal tubes
- Size 1 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 1 for video laryngoscopes

The AirSim Child

The AirSim Child can be used in the training of all the procedures facilitated by child airway management, which includes;

- Naso–tracheal intubation
- Positive pressure ventilation.
- Bag & mask ventilation techniques.
- Endotracheal intubations.

TruCorp recommend the following equipment sizes for optimal performance:

- Size 5.5 - 6 oro-tracheal tubes, size 4.5 - 5.0 naso-tracheal tubes
- Size 2 for LMA laryngeal masks
  (similar respective sizes for other supraglottic devices)
- Size 2 for video laryngoscopes

Needle Access

The AirSim product range for the AirSim Standard, Multi and Bronchi can be readily used for training in Needle Cricothyroidotomy.

For needle Cricothyroidotomy we supply the airway with a pinhole that has been precut in the correct anatomical area. The material which the airway is constructed from has unique properties in that when dilated from pinhole size it accommodates the size of the dilation tool and thus gives an airtight seal around the instrument whether this is a needle or a dilator.

The pin hole is positioned in the correct anatomical area and is covered with a specialized and replaceable tape. The trainee has to identify the pinhole by palpation and then insert the needle and/or the dilators. When the needle or dilators are removed the material reverts to its original size. We also supply spare sealing tape for further use.

Please note that the use of a scalpel or any sharp blade prior to performing Cricothyroidotomy on the AirSim Standard, Multi or Bronchi is NOT required. Doing so may damage the airway material in the area of the preformed pinhole and will invalidate the warranty. The use of a scalpel CAN be used on the AirSim Advance Crico model.

Care and maintenance

Cleaning and Storage

Store in clean, dry conditions away from heat and direct sunlight; avoid contact with metals, solvents, oils or greases and strong detergents.

Thoroughly wash the AirSim airway in warm water, using a dilute (8-10% w/w) sodium bicarbonate solution until all visible foreign matter is removed.

Mild detergents or enzymatic cleaning agents may be used on the airway in accordance with the manufacturer's instructions and at the proper dilution. The detergent must not contain skin or mucous membrane irritants.

Clean the device using a small soft bristle brush (approximately ½ inch or 12.5mm in diameter). Gently insert the brush through the airway, taking care not to damage the material. Extra care must be taken when cleaning around the vocal cords.

Thoroughly rinse the airway in warm flowing tap water to remove cleaning residues. Carefully inspect the device to ensure that all visible foreign matter has been removed.

The head and neck skin of the AirSim Advance is made from durable and very elastic polyurethane material. It can be cleaned using a lightly soaped, damp cloth. Please do not use and detergents or cleaning agents on the skin material.

Please DO NOT USE any of the following when cleaning the AirSim product range

- Germicides, disinfectants, or chemical agents such as glutaraldehyde (e.g. Cidex®),
- Ethylene oxide, phenol-based cleaners or iodine-containing cleaners

Such substances are absorbed by the AirSim materials, resulting in exposure of the user to unnecessary risk and possible deterioration of the device.

Do not use a device that has been exposed to any of these substances.

NB. IT IS IMPORTANT THAT GENEROUS AMOUNTS OF TRUCORP LUBRICANT IS USED DURING AIRWAY AND DEVICE INTERVENTIONS.

Warranty

TruCorp warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of 1 year from the date of purchase. The TruCorp warranty can now provide an additional 2nd or 3rd year warranty onto the products which will ensure full model repairs and returns and any other issues with the model at an extra premium price. Please contact sales for more details.

This ensures that our customers receive maximum coverage on each product. If the unit should malfunction it must be returned to the factory for evaluation. Upon examination by TruCorp, if the unit is found to be defective it will be repaired or replaced at no charge. However this warranty is VOID, if the unit shows evidence of having been tampered with or shows evidence of having been damaged by excessive heat, the use of sharp instruments, misapplication, misuse or other operating conditions outside of TruCorp's control. Components which wear or are damaged by misuse are not warranted and will charged if repair has been approved.

Before returning any models please contact TruCorp. To avoid delays please ensure the following information is available

1. Returnee's name, address and phone number.
2. Model and serial numbers
3. Repair instructions with potential issues (with images if possible)
4. Apparatus/devices and number of uses on the model

Please direct all warranty and repair requests/inquires to

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Fax: +44 (0)28 9073 7282
Email: info@trucorp.com and/or rcolhoun@trucorp.com

Every precaution for accuracy has been taken in the preparation of this manual, however, TruCorp neither assumes responsibility for any omissions or errors that may appear nor assumes liability for any damages that result from the use of the product in accordance with the information contained in the manual.